

## ABSTRACT OF THE DISCLOSURE

A wheel balancer is provided that includes a shaft adapted for receiving a wheel/tire assembly and rotating a wheel/tire assembly removably mounted thereon, a  
5 motor operatively connected to the shaft for rotating the shaft about its longitudinal axis, thereby rotating the wheel/tire assembly, a load roller for applying a generally radial force to the wheel/tire assembly during rotation so that loaded wheel/tire assembly measurements may be determined while the force is applied thereto and a control circuit. The control circuit is responsive the loaded wheel/tire assembly measurements and to a  
10 tire stiffness value to make a determination of a predetermined uniformity parameter.